

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1-42. (Cancelled)

43. (Currently amended) An isolated or recombinant  $\beta$ 1,4-N-acetylglucosaminyl ~~acetyl~~galactosaminyl (GalNAc) transferase polypeptide;  
wherein a nucleotide sequence from a lipooligosaccharide (LOS) locus from *Campylobacter* comprises a polynucleotide sequence that encodes the  $\beta$ 1,4-N-GalNAc transferase polypeptide and wherein the  $\beta$ 1,4-N-GalNAc transferase polypeptide transfers a GalNAc residue from a donor substrate to an acceptor substrate; and  
wherein the nucleotide sequence from the LOS locus is amplified by PCR from a *Campylobacter* genome using a first primer comprising SEQ ID NO:40 and a second primer comprising SEQ ID NO:41.

44-45. (Cancelled)

46. (Previously presented) The isolated or recombinant  $\beta$ 1,4-N-GalNAc transferase polypeptide of claim 44, wherein the  $\beta$ 1,4-N-GalNAc transferase polypeptide further comprises a tag for purification.

47-51. (Cancelled)